



CE



Model Number

ML100-8-HGU-100-RT/103/115/162

Convergent mode sensor with 2 m fixed cable

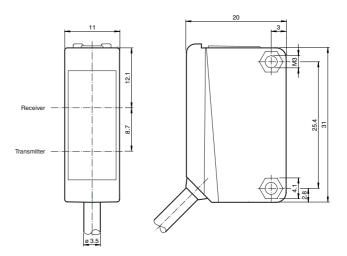
Features

- · Miniature design
- Diffuse mode sensor with long, narrow light spot
- Easy to use
- · Very bright, highly visible light spot
- Full metal thread mounting

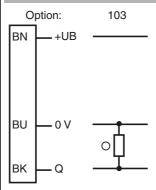
Product information

The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.

Dimensions

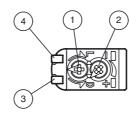


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



1	Light-Dark-switching	
2	Sensitivity adjuster	
3	Signal display	yellow
4	Operating display	areen

Technical data		
rechnical data		
General specifications		
Detection range		10 100 mm
Adjustment range		30 100 mm
Reference target		standard black, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light
Polarization filter		no
Diameter of the light spot		approx. 6 mm x 60 mm at 100 mm
Angle of divergence		Emitter: 3.5 ° vertical ; 30 ° horizontal
Optical face		frontal
Ambient light limit		EN 60947-5-2:2007+A1:2012
Functional safety related para	ameters	
MTTF _d		860 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: power on
Function indicator		LED yellow: lights when object is detected
Control elements		Sensing range adjuster
Control elements		Light-on/dark-on changeover switch
Electrical specifications		g
Operating voltage	U _B	10 30 V DC
Ripple	OB	max. 10 %
No-load supply current	I ₀	< 20 mA
Output	'0	\20 IIIA
•		The authorize type of the concer is adjustable. The default set
Switching type		The switching type of the sensor is adjustable. The default setting is: light on
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA, resistive load
Voltage drop	U_d	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		1 ms
Ambient conditions		
Ambient temperature		-30 60 °C (-22 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		approx. 50 g
Tightening torque, fastening so	rews	0.6 Nm
Cable length		2 m
Compliance with standards a ves	nd direct	i-
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012
Standard conformity		· · · ·
Standards		UL 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source or listed Power Supply with a limited voltage output with (maybe integrated) fuse (max. 3.3 A according UL248), Type 1 enclosure
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Accessories

OMH-ML100-01

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-02

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-04

Mounting aid for ML100 series, Mounting bracket

OMH-ML100-05

Mounting aid for ML100 series, Mounting bracket

OMH-F10-ML100

Mounting aid for ML100 series

OMH-10

Mounting aid

OMH-ML100-S1

Mounting bracket

OMH-ML100-08

Mounting aid for ML100 series, Snap-in

Other suitable accessories can be found at www.pepperl-fuchs.com

CCC approval

CCC approval / marking not required for products rated ≤36 V

Characteristic response curve Offset Y [mm] 30 20 10 -20 -30 -40 40 60 80 0 20 100 120 140 Distance X [mm] white 90 % grey 18 % black 6 %

